

Appendix 6-5

Drilling Results

# GENWAL COAL COM!

P.O. Box 1201 • Huntington, Utah 84.  
Telephone (801) 687-9813

April 25, 1985

Mr. Toby Manzanares  
Moab District Office  
Bureau Of Land Management  
82 East Dogwood  
P.O.Box 970  
Moab, Utah 84532

Dear Mr. Manzanares,

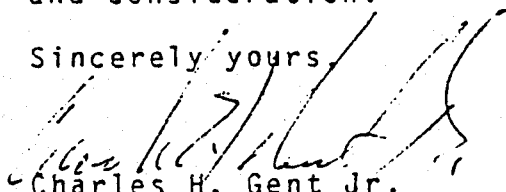
Please find enclosed a copy of the drilling information you requested on the phone the other day. I am very sorry for the delay in getting the information to your office.

The information where we did not core must be interpreted from the water returning from the hole and may or may not be accurate. The areas where there was more than two inches of coal were cored and we have these cores stored in this office, Mr. Vance of your Price office has looked at some of the cores, however we will be more than happy for your office to examine these cores and discuss any further questions you may have.

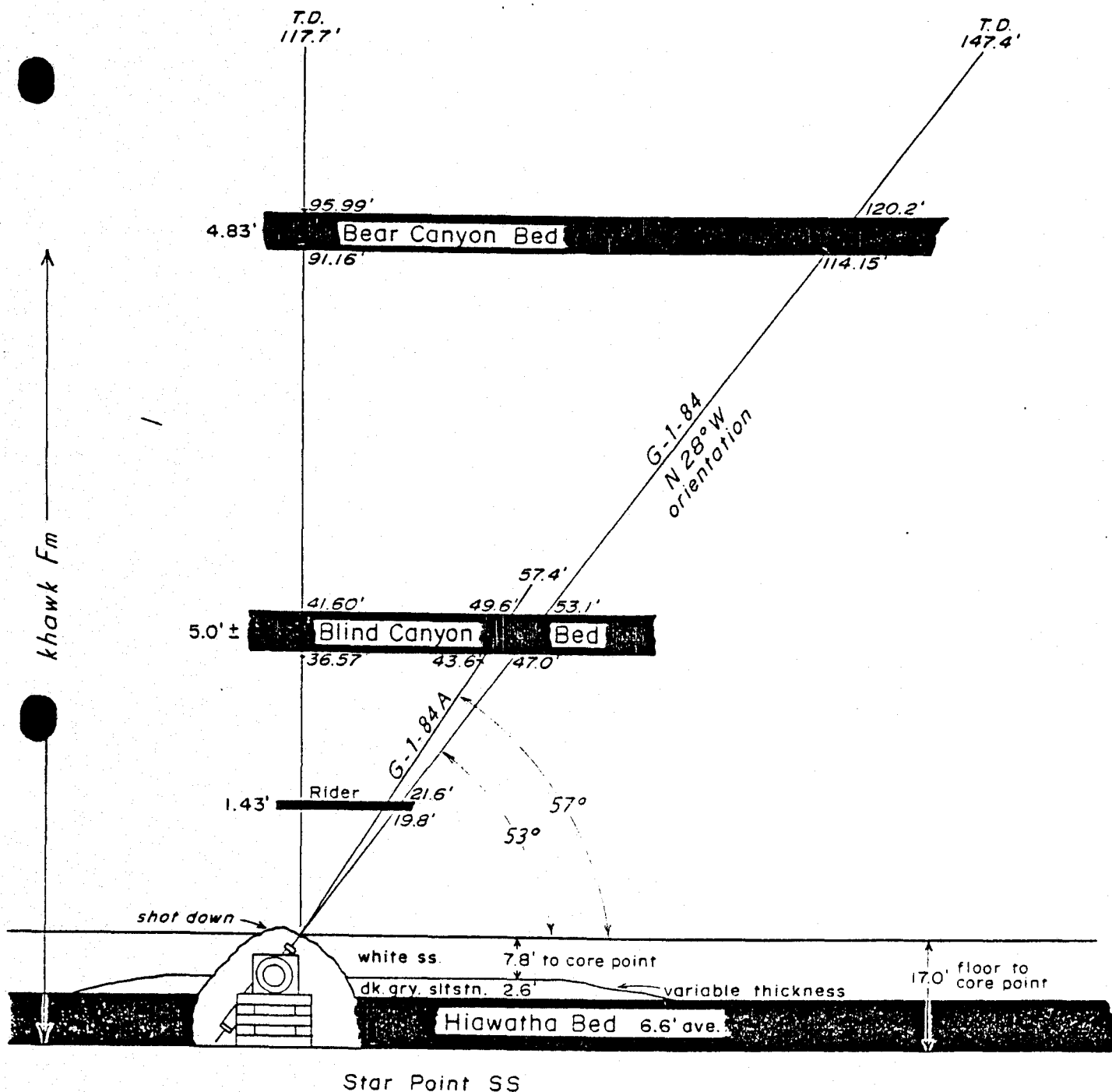
As you can see from the information in the section there are no mineable seams above us at this particular location. With this information and the information from the previous hole we have determined there exists no mineable seams above us on this property. At this point we will begin to make plans to create a larger portal area to better serves the needs of the mine on the Hiawatha level.

If I can be of any further service please feel free to contact me at 687-9813. Thank you for your time and consideration.

Sincerely yours,

  
Charles H. Gent Jr.  
Vice President

enc.



GENWAL COAL COMPANY  
D.H. 1

Coal - Utah  
GENWAL MINE  
DRILL HOLE G-1-84  
and G-1-84A

May, 1984

D.R. Olsen

MID TERM REVISION 5-30-86  
SCALE 1" = 20'

CONFIDENTIAL

HAWAIIA

20.7' - 26.7'

WHITE SS  
CORE POINT

28.2' - 31.9'

COAL - BRIGHT, HARD RESINOUS

31.9' - 34.4'

LT. GRAY SHALE

END CORE

34.4' - 79.5'

GRAY DRILLING RETURN W/ THIN LAYERS OF BROWN STREAKS  
CORE POINT

79.5' - 82.9'

COAL BRIGHT, HARD, RESINOUS

82.9' - 84.4'

WHITE HARD SANDSTONE

END CORE

84.4' - 125.5'

GRAY DRILLING RETURN → WHT / LT GRAY RETURN  
CORE POINT

125.5' - 126.8'

COAL BRIGHT, HARD

126.8' - 128.7'

CARBONACEOUS SHALE W/ COAL PARTINGS AND LENSES  
END CORING

130.0' - 131.1'

BROWN H<sub>2</sub>O MUDDY

131.1' - 131.2'

COAL

131.2' - 132.2'

BROWN MUDDY H<sub>2</sub>O

132.2' - 134.0'

WHT H<sub>2</sub>O RETURN

134.0' - 144.5'

BROWN MUDDY, LT GRAY, WHT H<sub>2</sub>O RETURN THIN LAYERS

144.5' - 145.0'

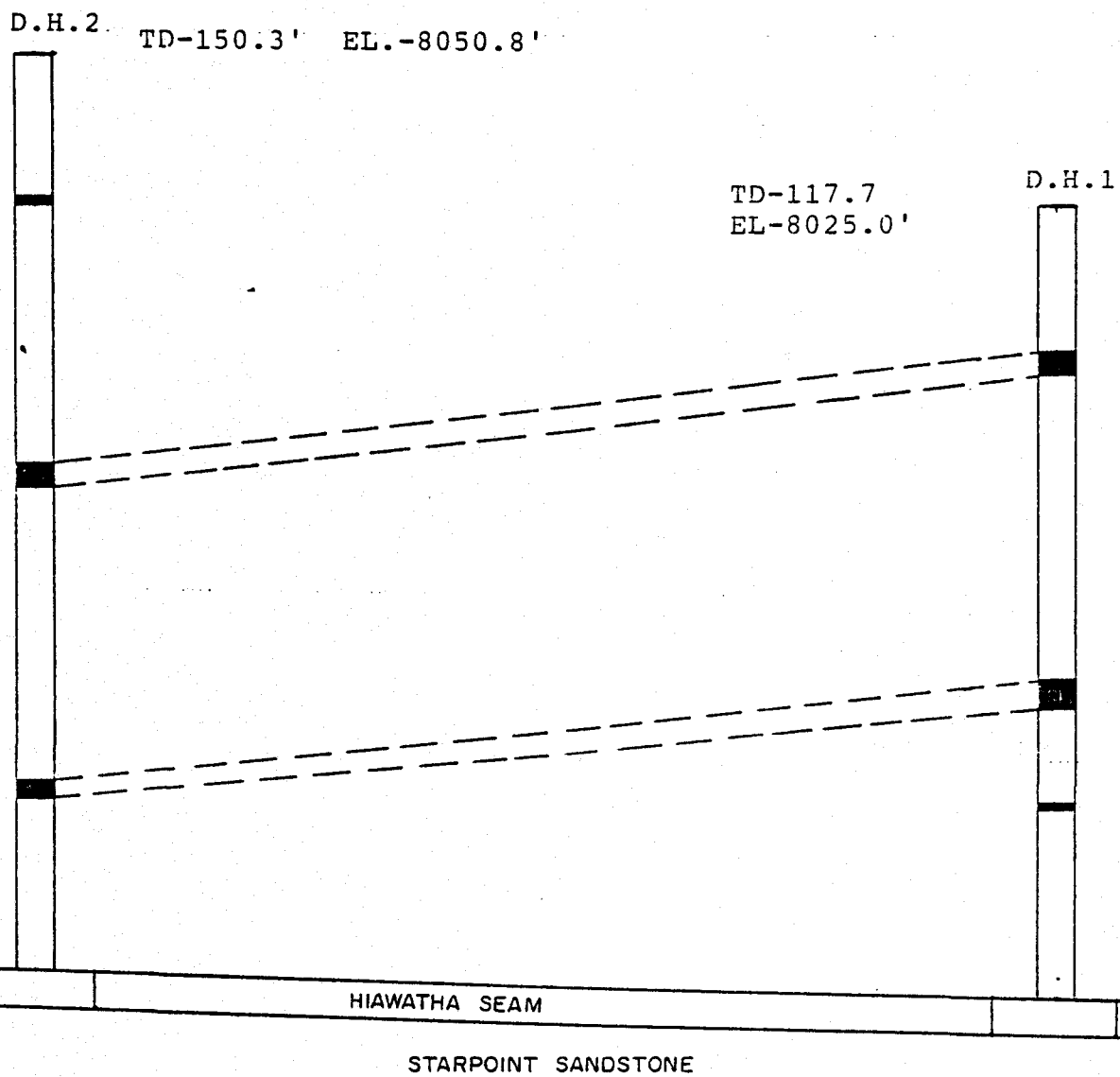
WHT H<sub>2</sub>O RETURN

150.3

TD

6-5  
DRILL HOLE X-SECTION  
5-30-86

SCALE H 1"=300'  
V 1"= 30'



DRILL HOLE CROSS-SECTION

GENWAL COAL COMPANY  
5-30-86

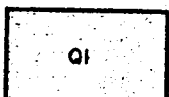
EXPLANATION (continued)

QUATERNARY



Alluvium

Stratified clay, silt, sand, gravel and some unsorted flood deposits.



Landslide Deposits

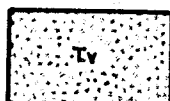
Mixed rubble and blocks of material slumped from formations at higher elevations.



Gravel Deposits

Partly consolidated poorly sorted and stratified deposits of rock fragments of local origin, pediments or terrace, up to 75 feet thick.

TERTIARY



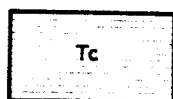
Volcanic Flows

Bullion Canyon Series, volcanic flows.



Green River Formation

Chiefly greenish lacustrine shale and siltstone.



Colton Formation

Varicolored shale with sandstone and limestone lenses, thickest to the north. 300-1,500 feet.



Flagstaff Formation

Dark yellow-gray to cream limestone, evenly bedded with minor amounts of sandstone, shale and volcanic ash, ledge former. 200-1,500 feet.

TERTIARY  
CRETACEOUS



North Horn Formation

Variegated shales with subordinate sandstone, conglomerate and freshwater limestone, thickens to north, slope former. 500-2,500 feet.



Price River Formation

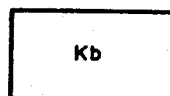
Gray to white gritty sandstone interbedded with subordinate shale and conglomerate, ledge and slope former. 200-1,000 feet.



Castlegate Sandstone

White to gray, coarse-grained often conglomeratic sandstone, cliff former, weathers to shades of brown. 150-500 feet.

-Unconformity-



Blackhawk Formation

Yellow to gray, fine- to medium-grained sandstone, interbedded with subordinate gray and carbonaceous shale, several thick coal seams. 600-1,500 feet.



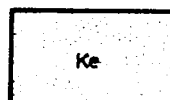
Star Point Sandstone

Yellow-gray massive cliff-forming sandstone, often in several tongues separated by Masuk Shale, thickens westward. 90-1,000 feet.



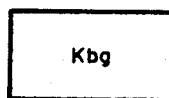
Masuk Shale

Yellow to blue-gray sandy shale, slope former, thick in north and central plateau area thins southward. 300-1,300 feet.



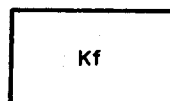
Emery Sandstone

Yellow-gray friable sandstone tongue or tongues, cliff former, may contain coal (?) in south part of plateau if mapping is correct, thickens to west and south. Coal may be present in subsurface to west. 50-800 feet.



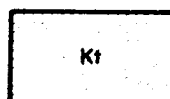
Blue Gate Shale

Pale blue-gray, nodular and irregularly bedded marine mudstone and siltstone with several arenaceous beds, weathers into low rolling hills and badlands, thickens northerly. 1,500-2,800 feet.



Ferron Sandstone

Alternating yellow-gray sandstone, sandy shale and gray shale with important coal beds of Emery coal field, resistant cliff former, thickens to the south. 50-950 feet.



Tununk Shale

Blue-gray to black sandy marine slope forming mudstone. 400-650 feet.

GENWAL COAL COMPANY  
PLATE 6-1A

KEY FOR PLATE 6-1

FEB. 10, 1988